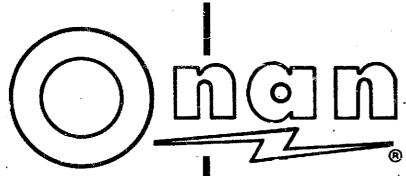
The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.





OPERATORS MANUA AND PARTS CATALOG

FOR

Onan ELECTRIC GENERATING SETS

MDJB SERIES



GENERAL INFORMATION

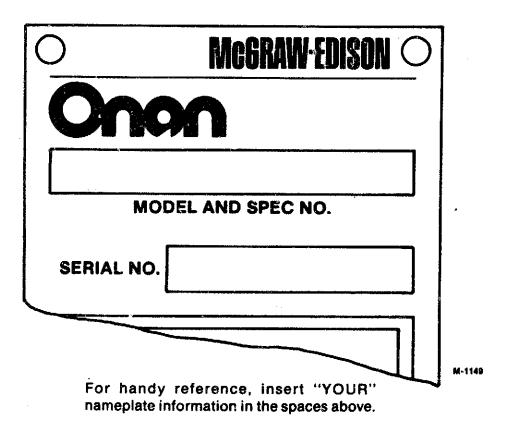
INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

Always give the MODEL, SPEC NO. and SERIAL NO.



- 2. Do not order by reference number; always use part number and description.
- 3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
- 4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Manual due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."



FICHE LOCATION

ILLUSTRATION

A4	*****	Data Table
B1	*****	Air Cleaner & Fuel Filter Group
В6	*****	Automotive Starter Group
8A	******	Camshaft Group
B13	*********	Control Group
A5	******	Crankcase & Oil Base Group
8A	******	Crankshaft & Flywheel Group
A7	******	Cylinder Head Valve & Rocker Group
A13	******	Fuel Transfer Pump & Injection System Group
A10	*****	Gear Cover & Water Pump Group
В7	*****	Generator Group - Alternator Portion
Cl	*******	Generator Group - Exciter Portion
В3		Governor Group
В9	*****	Heat Exchanger Group
В4	******	Manifold & Thermostat Group
Al2		Oil System Group
A9	*****	Piston & Connecting Rod Group
C3	******	Service Kits & Miscellaneous
C3	*****	Sound Shield Housing Group - Optional
B11	******	Special Parts For Keel Cooling Models
B5	******	Start-Disconnect Plate & Stop Solenoid Group
B8		Starter Motor Parts Group
A11		Water Pump Parts Group (132B59) - Spec A-K Only
A11	*****	Water Pump Parts Group (132B152 & 131K182) - Begin Spec
		L & Replaced Pump - Spec A-K
B12		Water Pump Parts Group (132B110)
B12	******	Water Pump Parts Group (132C74)

SPECIAL PARTS SECTION FOR WORKBOAT MODELS



This catalog applies to the standard MDJB Generating Sets as listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number below the illustration. Parts illustrations are typical. Using the Model and Spec No. from the set name-plate, select the parts that apply to your set. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left set sides are determined by facing the engine end (front) of the set.

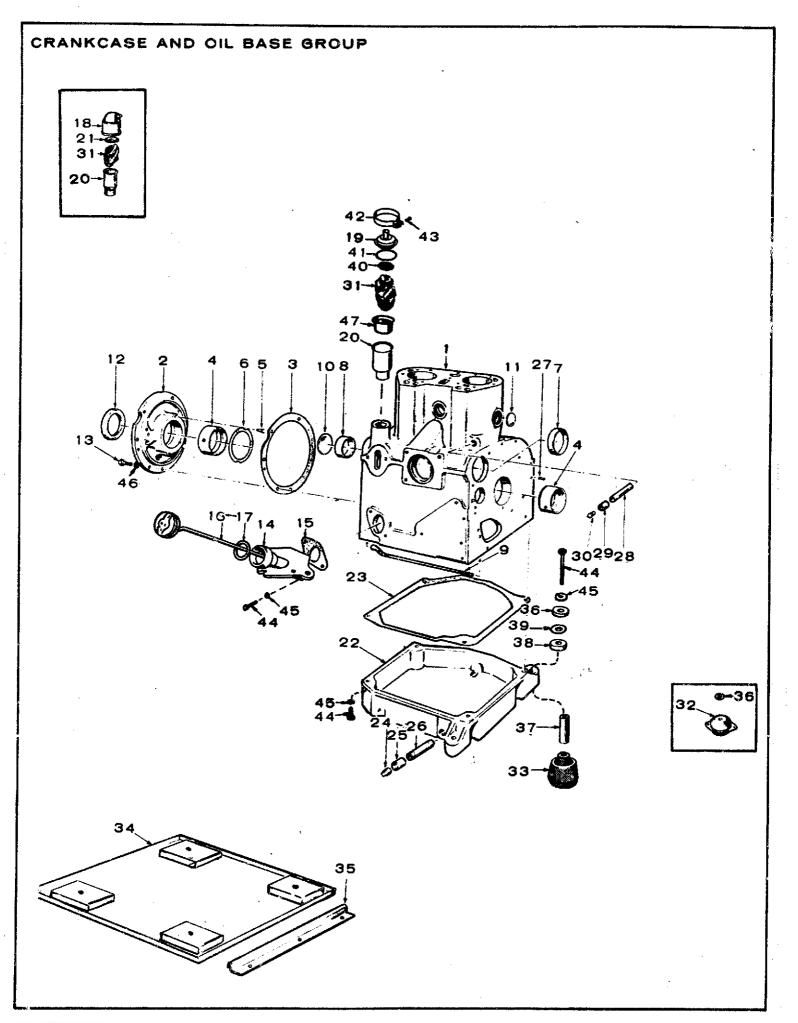
GENERATOR SET DATA TABLE

	ELECTRICAL DATA						
MODEL & SPEC NO. †	WATTS	VOLTS	HERTZ	WIRE	PHASE	PARTS KEY NO	
6.0MDJB-3CR/**	6000	120/240	60	.	1	1	
6.9MDJB-4R/*	6000	120/208	60	4	3	ŧ	
6.0MDJB-5DR/*	6000	J20/240	60	4	3	J	
5.0MD JB-53CR/*	5000	120/240	50		ı	1	
5.0MDJB-54R/*	5000	120/208	50	4	3	f	
5.0MDJB-55DR/*	5000	120/240	50	4	3	ı	
6.0MDJB-3CR3/* ★	6000	120/240	60	±	1	2	
5.0MDJB-53CR3/*★	5000	120/240	50	\$		2	
6.0MDJB-3CR4/*£	6000	120/249	60	.]	2	
5.0MDJB-53CR4/*€	5000	120/240	50	±	, ,	2	
		Workboat Model)	SEE SPECIAL S	ECTION at	rear of book.		

- * The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.
- ** This column applies also to 6:10JB-IR/ (which is early model connected for 120 volt 2 wire service).
- *** These generators have four load wires which are reconnectible for 120 volt 2 wire service, or 240 volt 2 wire service, or 120/240 volt 3 wire service. NOTE: Previously the "C" was not used in the model designation.
 - £ These units have 32 volt DC system for engine requirements only (not auxiliary DC loads).
 - ★ These units have 24 volt DC system for engine requirements only (not auxiliary DC loads).
 - † New model designations shown, begin during 1969. Previous designations did not use a decimal in the KW rating. EXAMPLE: 6.0MDJB was formerly 6MDJB.

NOTE: Hertz is a unit of frequency equal to one cycle per second.





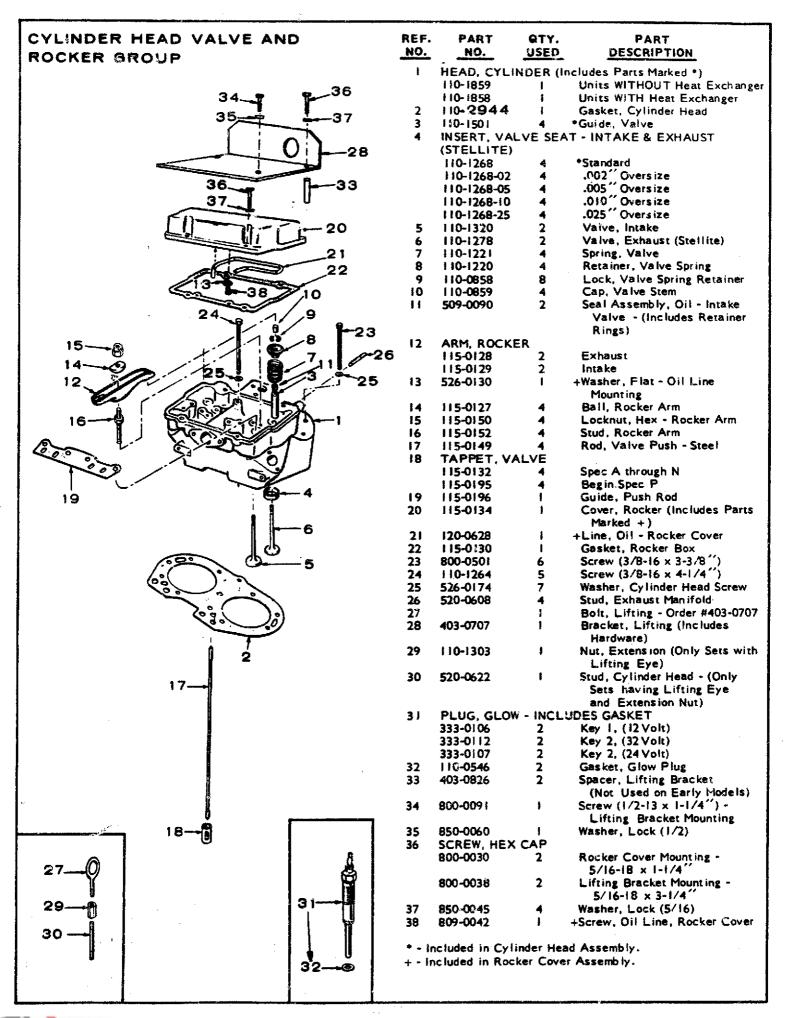


REF.	PART NO.	QTY. USED	PART DESCRIPTION
f	110-1306	I	Block Assembly, Cylinder (Includes Parts Marked *)
2	101-0337	I	*Plate, Bearing - Less Bearing and Pins
3	101-0386	i	*Gasket Kit, Rear Bearing Plate (Includes Steel Shims)
4	BEARING (PE	RECISIO	N), MAIN - FRONT OR REAR
•	101-0359	2	Standard
	101-0359-02	2	.002 '' Undersize
	101-0359-10	2	.010 ´´ Undersize
	101-0359-20	2	.020 ~ Undersize
	101-0359-30	2	.030 ´´ Undersize
5	516-0072	4	*Pin, Lock - Thrust Washer
6	104-0420	2	*Washer, Crankshaft Thrust
7	101-0363	l l	* Bearing (Precision), Camshaft
			Front - Standard Only
. 8	101-0365	1	*Bearing (Precision), Camshaft
			Rear - Standard Only
9	120-0553	ł	*Tube, Crankcase Oil
10	517-0053	1	*Plug, Expansion - Rear
			Camshaft Opening
11	*PLUG, EXPA	NSION -	CYLINDER BLOCK
	517-0059	3	I-7/16 Diameter
	517-0096	l	I-9/16 "Diameter
12	50 9-0086	ı	Seal, Oil - Rear Bearing Plate
13	805-0019	6	*Bolt, Place, Rear Bearing Plate (3/8-16 x 1-1/4")
14	TUBE, OIL F	ILL	-
	123-0681	i	Spec A through R
	123-1085	ł	Begin Spec S
15	123-0667	1	Gasket, Oil Fill Tube Mounting
16	CAP AND IN	DICATO	R, OIL FILL
	123-0651	· 1	Spec A through R
	123-1058		Begin Spec S
17	123-0191	1	Gasket, Oil Fill Cap
18	CAP, BREAT	HER TU	
	123-0458	1	Spec A through F
	123-0787	ı	Spec G through R
19	123-1203	ı	Cap & Valve Assembly, Breather - Begin Spec S
20	TUBE, BREA	THER	
	123-0645	j	Spec A through R
	123-0952	1	Begin Spec S
21	123-0315	ŀ	Valve, Breather - Spec A through R
22	BASE, OIL		
	102-0450	1	Spec A through G
	102-0540	1	Begin Spec H
23	102-0451	1	Gasket, Oil Base
24	505-0056	1	Plug (1/2") - Oil Drain Coupling (1/2") - Oil Drain
25	505-0014	1	Coupling (1/2") - Oil Drain

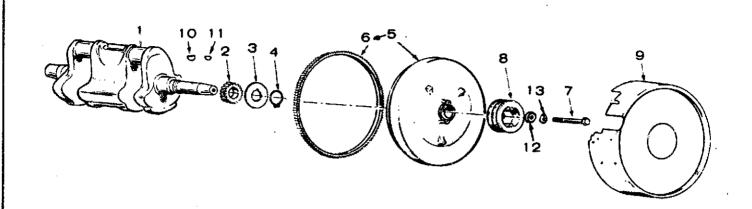
REF.	PART NO.	QTY.	PART
		<u> </u>	
26	505-0002	1	Nipple (1/2 x 3") - Oil Drain
27	516-0141	2	*Pin, Dowel - Gear Cover
			Locating
28	505-0449	Į	Nipple (1/4 x 6 ") - Water Drain
29	505-0027	1 .	Coupling (1/4") - Water Drain
30	502-0153	ŀ	Plug (1/4" - Hex Head) - Water Drain
31	123-0865	t	Baffle, Breather Tube
32	CUSHION, VI	BRATIO	N - CENTER FLANGE (Lord Mount)
	402-0242	2	Engine End - Spec A through G
	402-0245	2	Generator End - Spec A through G
	402-0244	2	Generator End - Heat Exchanger Models - Spec A through G
33	CUSHION VI	BRATIO	N - CONE SHAPED
	402-0284	2	Engine End - Begin Spec H
	402-0285	2	Generator End - Begin Spec H
34	PAN, DRIP		
	405-1264	į.	Spec A through G
25	405-1402	Ţ	Begin Spec H
35 34	405-1265	2	Clamp, Drip Pan Hold-down
36	526-0 182		RUBBER - STEEL
	320-0 10 2	8	Upper & Lower (17/32"x 2-7/8"x 1/4") - Spec A
			through G
	526-0014	4	†Begin Spec H
37	402-0290	4	†Bushing, Cushion Mounting
			Spacer - Begin Spec H
38	402-0282	4	†Snubber, Shock Mounting - Begin Spec H
39	526-0198 /	As Req.	†Washer, (29/64"1.D. x I-1/2" x 1/16") - Begin Spec H
40	123-0958	1	Screen, Breather Tube - Begin Spec S
41	509-0117	ı	Seal, "O" Ring - Breather Tube - Begin Spec S
42	123-0951	ı	Clamp, Breather Tube - Begin Spec S
43	809-0035	i	Screw, Breather Clamp - Begin Spec S
44	SCREW, HEX	CAP	_
	800-008 (4	†Plant Mounting
	800-0072	4	Oil Base Mounting
	800-0026	2	Oil Fill Tube & Bracket Mtg.
45	WASHER, LOC	:K	
	850-0055	4	†Plant Mounting
	850-0055	4	Oil Base Mounting
	850-0045	2	Oil Fill Tube & Bracket Mtg.
46	526 : 0245	6	Washer, Flat (3/8") - Rear Bearing Plate
47	123-1153	1	Baffle Cup & Holder
	402-0292	4	Hardware Set, Mounting -
			(Includes Parts Marked †)

^{* -} Included in Cylinder Block Assembly. † - Included in Mounting Hardware Set.



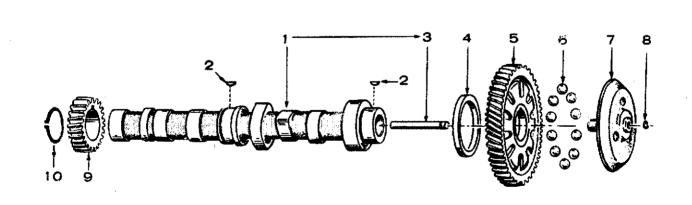






CRANKSHAFT AND FLYWHEEL GROUP

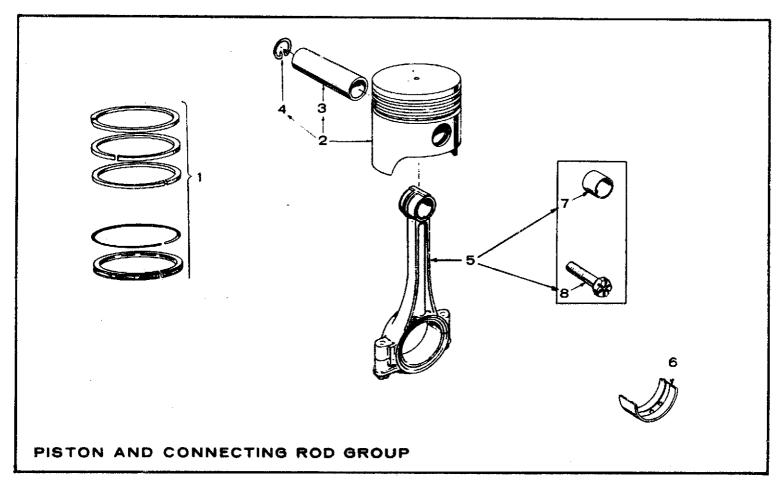
REF.	PART NO.	OTY. USED	PART DESCRIPTION	REF.	PART NO.	QTY. USED	PART DESCRIPTION
1 2 3 4 5 6 7	104-0451 104-0418 104-0416 518-0188 104-0448 104-0423 800-0500	 	Crankshaft Gear, Crankshaft Washer, Retainer Ring, Lock Flywheel (Includes Ring Gear) Gear, Ring - Flywheel Screw (7/16-14 x 5-1/2") - Flywheel Mounting	9 10 11 12 13	EXCHANGE 104-0449 104-0550 104-0444 515-0001	ER OR KEE I I I	- UNITS WITH HEAT L COOLING Spec A through F Begin Spec G Guard, Flywheel Key, Gear Mounting CRANKSHAFT Spec A Only Begin Spec B Washer, Flywheel Mounting Washer, Lock (7/16")



CAMSHAFT GROUP

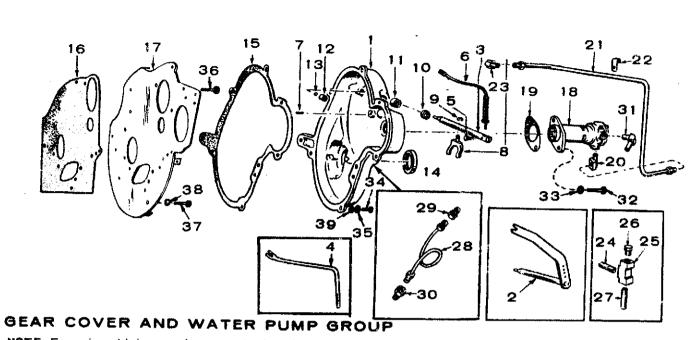
REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF.	PART NO.	QTY. USED	PART DESCRIPTION
- 1	CAMSHAFT,	INCLUDE	S PiN	5	105-0218	1	Gear, Camshaft (Includes
	105-0221	J	Spec A through N	. [Spacer & Plate)
	105-0271	1	Begin Spec P	6	510-0046	10	Ball, Fly - Governor
2 .	515-0001	2	Key, Camshaft Gear and	7	150-0775	1	Cup, Governor
			Injection Pump Gear	8	150-0078	1	Ring, Snap - Center Pin
3	150-0075)	Pin, Camshaft Center	9	147-0142	1	Gear, Injection Pump Drive
4	105-0205	1	Washer, Thrust	10	518-0195	1	Ring, Snap - Injection Pump Drive Gear





REF.	PART NO.	QTY. <u>USED</u>	PART DESCRIPTION	REF.	PART NO.	QTY. USED	PART DESCRIPTION
ı	RING SET, 113-0130 113-0130-05 113-0130-10 113-0130-20 113-0130-30	2 2 2 2 2	Standard .005" Oversize .010" Oversize .020" Oversize .030" Oversize .040" Oversize	3 4 5	PIN, PISTON 112-0093 112-0093-02 112-0085 114-0168	2 2 4 2	Standard .002 ' Oversize Ring, Retaining Rod Assembly, Connecting (Forged) NECTING ROD
		-	Spec A through N Standard .005" Oversize .010" Oversize .020" Oversize .030" Oversize .040" Oversize Begin Spec P Standard .005" Oversize .010" Oversize .010" Oversize .010" Oversize .010" Oversize .030" Oversize .040" Oversize .040" Oversize	7 8	114-0164 114-0164-02 114-0164-10 114-0164-20 114-0164-30 114-0170 805-0012	4 4 4 4 4 4 4	Standard .002" Oversize .010" Oversize .020" Oversize .030" Oversize Bushing, Piston Pin Bolt, Place (5/16-24 x 1-[3/16")





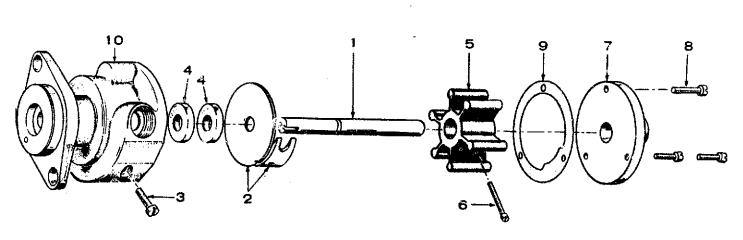
NOTE:	For	units with	heat	exchanger	OF	keel co	olins
	see	separate g	гопр.	•			-

REF.		QTY.	PART
NO.	NO.	USED	DESCRIPTION
ı	COVER A	SSEMBLY,	GEAR - COMPLETE
		S PARTS M	
	IC3-0267	1	Prior to Serial #684869 -
			(Also order #150-0847
			Governor Arm and #103-0251
			Gear Cover Gasket)
	103-0267	ŀ	Begin Serial #684869 Spec D
			Units Only (Also order
			#103-0251 Gear Cover Gasket)
_	103-0267	ļ	Begin Spec E
2	150-0825	1	Arm and Shaft, Governor - Prior
			to Serial #684869 - (NOTE:
			order #150-0838 Governor
-	.=0 0000		Shaft and #150-0847 Arm)
3	150-0838	j	*Shaft, Governor - Begin Serial #684869
4	150-0847	1	Arm, Governor - Governor Shaft
			to Carburetor - (Used Serial
			#684869 through Spec Q) *Screw (#8-32 x 1/2") - Begin
5	815-0176	ł	
		_	Serial #684869
6	150-1095	Į.	Arm, Governor - Begin Spec R
7	516-0111	į.	*Pin, Roll - Governor Cup Stop
8	150-0777		*Yoke
9.	518-0129	1	*Ring, Yoke Retaining - "E" Shaped
10	509-0088	t	*Seal, Oil - Governor Shaft
11	510-0048	ì	*Bearing, 1/2 'Shaft
12	510-0082	i	*Bearing, 1/4" Shaft
		ARING - GO	OVERNOR SHAFT THRUST
	510-0014	1	Spec A through D
	510-0043	1	Begin Spec E
14	509-0087	. 1	*Seal, Oil - Gear Cover
15	GASKET,	GEAR COVI	
	103-0219	1	Spec A through D (For Cast Iron Cover)
	103-0251	1	Begin Spec E (For Die Cast Cover)
16	103-0218	1.	Gasket, Backplate
17	103-0218	ļ ·	Backplate Gear Cover
	†PUMP, WA	•	Dackhiate Gem Coses
	131-0182		**Spec A through K (Also Order
			130-0628 Line)
	131-0152	Į.	Begin Spec L
19	131-0127	1	Gasket, Water Pump Mounting

Generation

REF.	PART	QTY.	PART
NO.	NO.	USED	DESCRIPTION
20	502-0076	1	Elbow, inverted Male - Water Pump Outlet
21	LINE, WAT	TER - PUMP	TO BLOCK
	130-0509	ŀ	Spec A through K
	130-0628	1	Begin Spec L
22	130-0511	1	Clamp, Water Line
23	502-0074	l	Elbow, Inverted Male - Water
			Line to Block
24	502-0047	1	Nipple, Close - Brass - Water Pump - Spec A through K
25	502-0157	1	Tee, Water Pump - Spec A through K
26	502-0153	ł	Plug, Brass - Water Pump Tee
27	502-0256	I	Spec A through K Nipple, Water Pump Inlet -
			Spec A through K
28	120-0581	ı	Line, Oil - Gear Cover (Early Spec A Units Only)
29	502-0235	ī	Connector, Restricted - Upper - Oil Line (Early Spec A
			Units Only)
30	502-0030	j	Connector, Inverted Male -
30	302-0030	•	Lower Oil Line (Early
			Spec A Units Only)
31	ELDOW W	ATER PUMI	
. 31	502-0304	ATER FOR	Begin Spec L (Will work Spec A
	302-0304	'	through K Units)
32	800-0006	2	Screw (1/4-20 x 7/8") - Pump
32	800-0006	4	Mounting
33	850-0040	2	Washer, Lock (1/4")
34		EARCOVER	MOUNTING
<i>3</i> -	800-0028	1	5/16-18 x 1"
	110-0879	4	5/16-18 x 1-1/4"
35	850-0045	5	Washer, Lock (5/16)
36	815-0347	2	Screw, Flat Head - Gear Cover
90	U13-037/	4	Backplate Mounting
			(1/4-20 × 1/2")
37	800-0026	1	Screw, Hex Cap - Gear Cover
			Backplate Mounting (5/16-18 × 3/4")
38	850-0045	1	Lockwasher, Gear Cover
		-	Backplate Mtg. (5/16")
39	526-0115	5	Washer, Flat (5/16")
_			ver Assembly.
*	- Sets with	Heat Excha	anger order 130-0627 line.
	t - See sepa	rate group fo	or Commented ใช้เรียบปication of this document
.			hy any means, is strictly prohibited

by any means, is strictly prohibited.



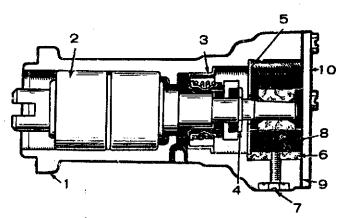
WATER PUMP (132B59) PARTS GROUP

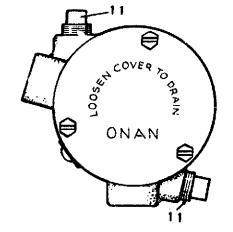
NOTE: This group applies to units Spec A through K.

REF.	PART NO.	QTY. USED	PART DESCRIPTION
	132-0059	1	*Pump, Water (For replacement order 130-0182 and 130-0628)
	132-0069	1	Kit, Water Pump Service ~ Includes Parts Marked **
ı	132-0060	1	Shaft, Water Pump
2	132-0061	1	Plate Assembly, Cam and Wear
3	132-0062	ŧ	Screw, Cam and Plate
4	132-0063	2	**Seal, Water Pump
5	132-0064	t	**Impeller, Water Pump - Includes Screw

REF.	PART NO.	QTY. USED	PART DESCRIPTION
6	132-0065	1	**Screw, Impeller
7	132-0066	1	Cover, Water Pump End
8	132-0062	3	**Screw, End Cover
9	132-0068	1	**Gasket, End Cover
10			Body, Water Pump (Not Sold Separately)

- * Plants with heat exchanger order 130-0627 Line.
 ** Contained in Repair Service Kit.



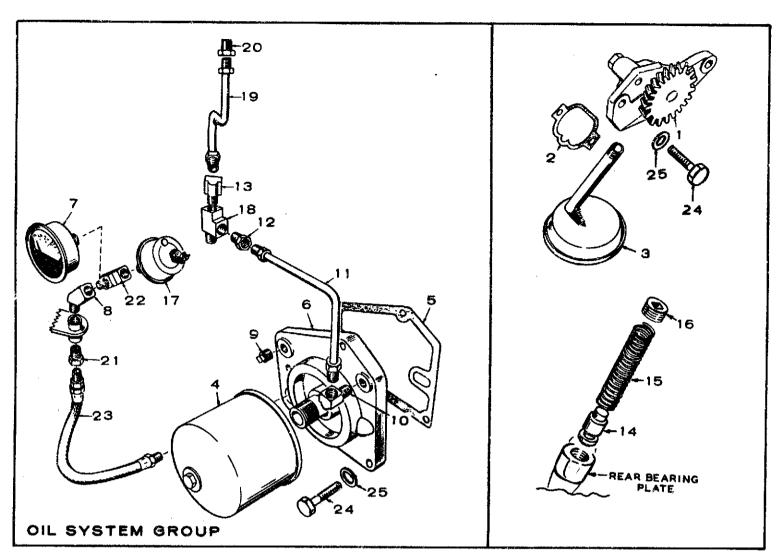


WATER PUMP (132B152&131K182) GROUP

NOTE: This group applies to all units Begin Spec L and replaced pumps Spec A through K units.

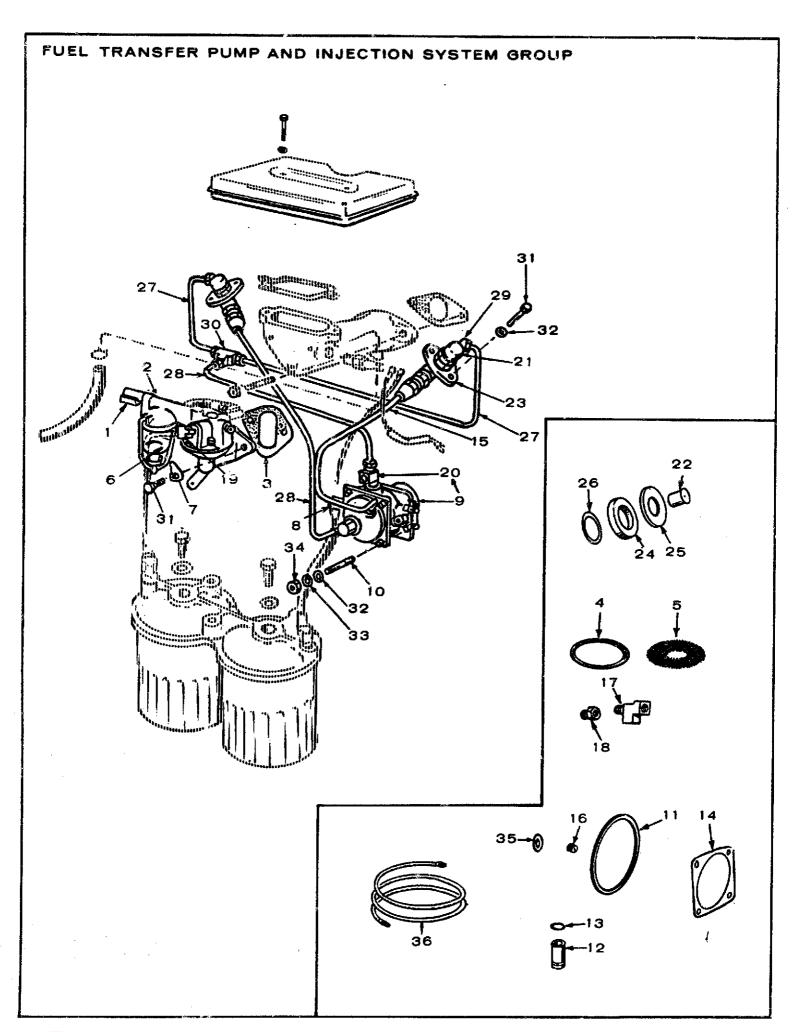
REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF.	PART NO.	QTY. USED	PART <u>DESCRIPTION</u>
	131-0179	t	Kit, Water Pump Repair (Includes Parts Marked *)	7	815-0283	4	Screw, H.H. Brass - (1) * Cam (3) Cover
1 .		i	Body, Water Pump (Not Sold Separately)	8 9	131-0160 131-0161	1	*Impeller *Gasket, Cover
2	131-0154	1	Bearing and Shaft Assembly	10	131-0162	i	*Cover, Pump
3	131-0157	1	*Seal Assembly	l ii	502-0080	ż	Plug, Square Head (1/8")
4	518-0221	I	*Retaining Ring			-	, , _ , , , , , , , , , , , , , , , , ,
5	131-0158	1	*Wear Plate, Rear	• - c	ontained in F	tepair Kit	
-6	131-015 9	1	*Cam	·	**************************************		-





REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF.	PART No.	QTY. <u>USED</u>	PART
				₩0.		<u> </u>	DESCRIPTION
1	120-0547	!	Pump Assembly, Oil	15	120-0555	!	Spring, By-Pass Valve
2 3	120-0580 120-0551	1	Gasket Kit, Pump	16	505-0274	!	Plug (1/8) - Oil By-Pass
3 4		, ,	Cup Assembly, Oil Pump Intake	17	SWITCH, L	OW PRESSI	JRE (OPTIONAL)
4	FILTER, OI 122-0185	· L.	3-1/2 Long (Standard)	Ì	309-0064	į	Spec A through E
	122-0193	,	5-1/2 Long (Standard)		309-0169	į.	Begin Spec F
	122-0193		5-1/2" Long (Optional)	18	502-0242	ı	Tee (Restricted) - Injection
5	122-0188	!	Gasket, Adapter Adapter, Oil Filter	٠.,			Pump Lubrication
6 7	193-0006	1	Gauge, Oil Pressure	19		- INJECTIO	ON PUMP TEE TO CYLINDER
8	502-0020	- 1	Elbow (Street - 90°) - Oil Gauge		HEAD		_
8	502-0020	:	Elbow, 45° (Optional Low Oil		120-0583		Spec A through N
0	302-0033	•	Pressure Switch)		120-0631	Į.	Begin Spec P
9	505-0057	,	Plug (1/8'') - Adapter	20	502-0281	1	Connector (Restricted) - Oil Line
10		/ESTED M	ALE - OIL LINE TO FILTER		FA2 6662		to Cylinder Head
10	ADAPTER	VEK IED M	ALE - OIL LINE TO FILTER	21	502-0003	J	Connector, Oil Fill Bracket to
	502-0019		Enga A through M	22	502 0050		Oil Line - Begin Spec S
	502-0017	,	Spec A through N Begin Spec P	22	502-0058	E	Tee, Oil Fill Bracket to Gauge
			- '				and Switch - Begin Spec S -
ij	LINE, OIL -	ADAPTER		22	E01 0000		Optional
	120-0582	1	Spec A through N	23	501-0003	!	Líne, Oil - Begin Spec S
	120-0636	ı	Begin Spec P	24	SCREW, HE	X CAP	
12	CONNECTO	R, INVERT	red male - Injection		800-0030	2	Oil Pump Mounting (5/16-18 x
	PUMP LUBE	RICATION	TEE '		000 0000	_	1-1/4")
	502-0030	2	Spec A through N		800-0028	3	Oil Filter Adapter Mounting
	502-0274	L	Begin Spec P		****		(5/16-18 x I")
13	502-0037	1 .	Elbow, Injection Pump	25	WASHER, L	OCK_	
-			Lubrication Tee - Begin		850-0045	2	Oil Pump Mounting (5/16")
		. :	Spec P		850-0045	3	Oil Filter Adapter Mounting
14	120-0539	1 .	Valve, Oil By-Pass				(5/16″)



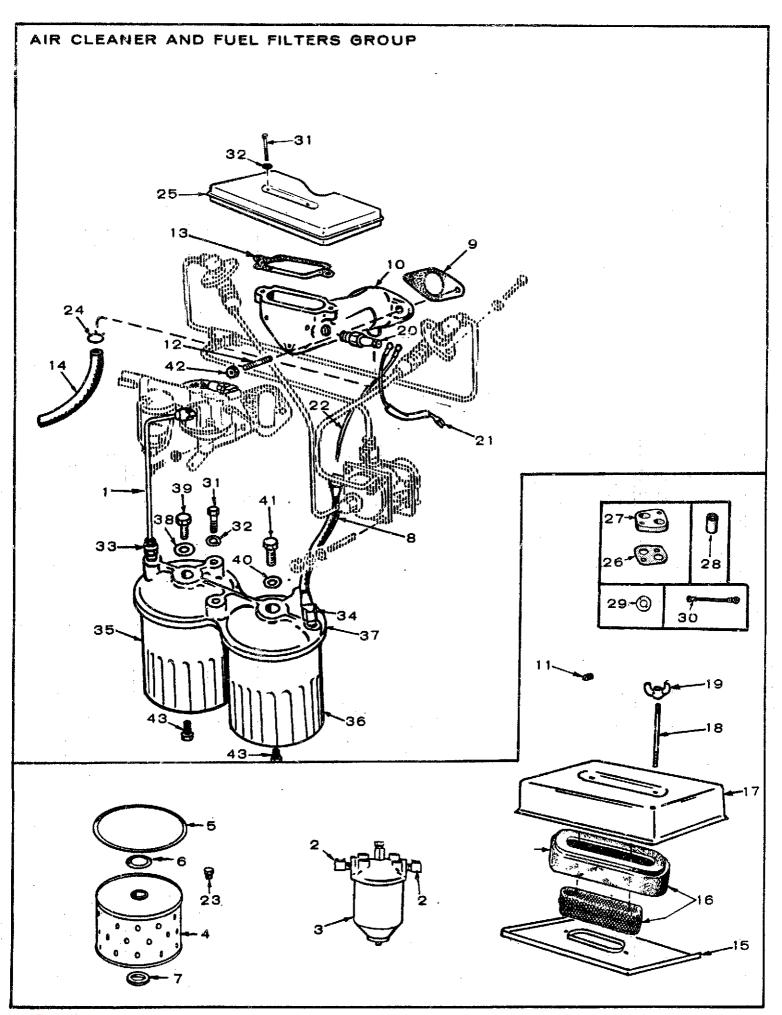




REF.	PART NO.	QTY. USED	PART <u>Description</u>
	149-1046	1	Repair Kit, Fuel Pump
			(Includes Diaphragm and
1	ELBOW, I	NVERTED M	Gaskets) ALE, FUEL PUMP INLET
	502-0065	I	45° - Spec A through R
	502-0002	1	90° - Begin Spec S
2	149-1038	I	Pump, Fuel Transfer
3	149-0792	I	Gasket, Fuel Transfer Pump Mounting
4	149-0517	ļ	Gasket, Fuel Pump Bowl
5	149-0463	1	Screen, Fue∤ Pump Filter
6	149-0662	1	Bowl, Fuel Pump (Metal)
7	149-1307	2	Washer, Flange - Fuel Pump
8	ELBOW II	NJECTION P	Mounting
-	502-0054	1	Spec A through Q
	502-0039	1	Begin Spec R
9	PUMP, FU	EL INJECTI	
	147-0218	1	Spec A through Q (Includes
			Buttons 2, 4, 11, 12)
	147-0219	i	Begin Spec R (Includes Buttons 2, 4, 11, 12)
10	520-012 9	4	Stud, Injection Pump Mounting
11	509-0094	ı	Seal, O-Ring - Injection Pump to Crankcase
12	147-0182	i	Tappet, Injection Pump
13	147-0196	ı	Gasket, O-Ring - Injection Pump Tappet
14	147-0145	1	Shim Kit, Injection Pump Mounting
15	LINE. IN I	ECTION PUN	1P TO NOŽŽLE
	149-0961	1	#! Cylinder - Spec A through Q
	149-0962	i	#2 Cylinder - Spec A through Q
	149-1101	1	#I Cylinder - Begin Spec R
	149-1102	1	#2 Cylinder - Begin Spec R
16		INJECTION	PUMP PLUNGER
	147-0147	!	.119 - Marked I or A
	147-0148	i t	.116 - Marked 2 or B .113 - Marked 3 or C
	147-0149 147-0150	1	.110 - Marked 4 or D
	147-0151	Ĺ	.107 - Marked 5 or E
	147-0161	ŧ	.104 - Standard, II or No Mark
	147-0152	ţ	.101 - Marked 6 or F
	147-0153	l l	.098 - Marked 7 or H
	147-0154	ļ	.095 - Marked 8 or J
	147-0155	1	.092 - Marked 9 or K
	147-0156	j Î	.089 - Marked 10 or L .122 - Marked 12 or M
	147-0190 147-0189	1 1	.122 - Marked 12 or M .125 - Marked 13 or N
	147-0188	i	.128 - Marked 14 or P
	147-0187	i	.131 - Marked 15 or R
	147-0186	Ī	.134 - Marked 16 or S

REF.	PART NO.	QTY. USED	PART DESCRIPTION
		***************************************	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
17	502-0048	1	Tee, Return Line (With provision for return line to tank) - Early Models Only
18	502-0029	ì	Bushing, Pipe - Return Line Tee to Pump Bleeder Valve - Early Models Only
19	ELBOW II	NVERTED M	ALE FUEL PUMP OUTLET
, ,	502-0002	1	90° - Spec A through R
	502-0065	i	45° - Begin Spec S
20	147-0183	1	Valve, Bleeder - Injection Pump
21	147-0136	2	Nozz le and Holder Assembly
22	147-0134	2	Nozzie Only, Component of Nozzie & Holder Assembly
23	147-0141	2	Flange, Injection Nozzle Hold-down
24	147-0044	4	Shield, Nozzle Heat (Steel)
25	147-0043	2	Gasket, Nozzle Heat Shield (Asbestos)
26	110-0419	2	Gasket, Shield to Head (Copper)
27	LINE NO	ZZLE FUEL	
	149-0863	1	Spec A through N - #1 Cylinder
	149-1056	i	Begin Spec P - #1 Cylinder
	149-0864	i	Spec A through N - #2 Cylinder
	149-1057	i	Begin Spec P - #2 Cylinder
28	LINE, INJ	ECTION PUN	1P TO FUEL RETURN LINES
	149-0873	!	Spec A through F
	149-0950	1	Spec G through N
	149-1058	ı	Begin Spec P
29	502-00 65	2	Elbow, Inverted (45°) - Nozzie (Fuel Return Line)
30	502-0102	3	Tee, Return Lines
31	SCREW, H	EX CAP	•
	114-0171	4	Nozzle & Holder Mounting (5/16-18 × 2")
	800-0027	2	Transfer Pump Mounting (5/16-18 x 7/8'')
32	WASHER,	FLAT	
	526-0122	4	Nozzle & Holder Mounting
	526-0022	4	Injection Pump Mounting
33	850-0045	4	Washer, Lock - Injection
			Pump Mounting (5/16")
34	862-0015	4	Nut, Injection Pump Mounting (5/16-18)
35	147-0259	ì	Ring, Retaining - Timing Button
36	501-0007	2	Line, Fuel (24 ⁷ ')





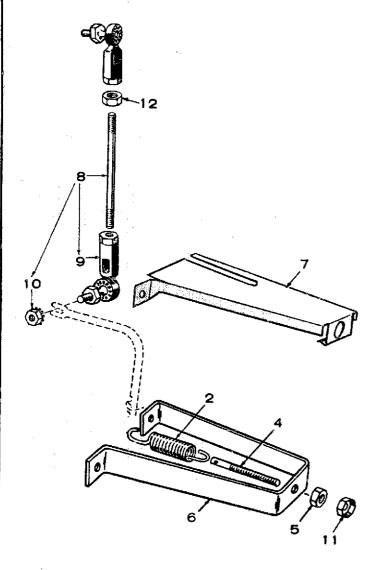


			4
REF.	PART	QTY.	PART
NO.	_NO	USED	DESCRIPTION
1			
ŧ		JEL PUMP I	
	149-1132	į.	Spec A through R
_	149-1190	1	Begin Spec S
2	502-0041	2	Elbow, Inverted Male -
			Secondary Filter Inlet and
			Outlet - Spec A through R
3	149-0408	J	Filter, Secondary Fuel -
			Includes Cartridge (Bleed
			Plug 149-0769 is available
			separately) - Spec A thru R
4	149-0428	ł	Cartridge, Secondary Fuel
			Filter - Spec A through R
. 5	149-0456	1	Gasket, Secondary Filter, Bowl
			to Cover - Spec A through R
. 6	149-0455		Gasket, Secondary Filter
			Cartridge to Head - Spec A
•	•		through R
7	149-0493	Section 1	Gasket, Secondary Filter
•		•	Cartridge to Retainer -
			Spec A through R
8	LINE SEA	~^ND	ILTER TO INJECTION PUMP
Ç	501-0091	LONDARTE	
	501-0129		Spec A through R
9	141-0281		Begin Spec S Gasket, Air Cleaner Adapter
,	171-0201		to Cylinder Head
. 10	ADAPTER	RESONAT	OR OR AIR CLEANER
	140-0804	1	Key I
	140-0816	í	Key 2, 32 Volt
	140-0817		Key 2, 24 Volt
11	505-0180		Plug, Pipe (1/4") - Air
• •	505 0700		Cleaner Adapter - Used
		'a ' · · ·	on some early models.
- 12	520-0011	2	Stud, Air Cleaner Adapter
	520,00.,	-	Mounting
13	140-0584	1	Gasket, Air Cleaner or
	. 10 020 1		Resonator Mounting
: 14	HOSE, BR	FATHER	(Coodinator Josephing
	503-0384		Spec A through F
	503-0462	i	Spec G through R
	503-0557	i	Begin Spec S
15	140-0607	i	Pan, Air Cleaner - Spec A
	10 0001	•	through H
16	140-0606	1	Element and Retainer, Air
	. ,		Cleaner - Spec A through H
17	140-0594		Cover, Air Cleaner - Spec A
	. 10 00.1		through H
18	520-0621	2	Stud, Air Cleaner - Spec A
		-	through H
. 19	865-0020	. 2 .	-
	005 0020		Nut, Wing - Air Cleaner -
20	HEATER	MANIFOLD	Spec A through H INCLUDES GASKET (12 Volt)
	154-0712	· I	Key I
	154-0712	3	Key 2, 32 Volt
	154-0712	2	Key 2, 32 Voit
		. •	107 2, 27, VOIL

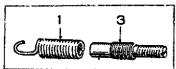
REF.	PART NO.		PART DESCRIPTION
21	LEAD G	OW PLUG	TO AIR HEATER
· - · .	336-1314	1	#I Cylinder (10-1/4") -
	230 1217	•	Round Type Terminal
	336-1504	ı	#1 Cylinder (12-1/4") -
	336-1304	ŗ	Plade True Tennice 1
	22/ 1212	ŀ	Blade Type Terminal
	336-1313	ŀ	#2 Cylinder (5-1/4") -
	224 1505		Round Type Terminal
	336-1505	į	#2 Cylinder (5-1/4") -
	*** * * * * * * * * * * * * * * * * * *	_	Blade Type Terminal
22	336-1418	ŀ	Lead, Air Heater to Solenoid
			in Control
23	149-0769	J	Plug, Air Bleed, Secondary
			Filter
24	CLAMP,	BREATHER	HOSE
	503-0171	2	Spec A through R
	503-0170	2	Begin Spec S
25	140-0803	J	Resonator - Begin Spec J
26	140-0706	1	Gasket, Heater Adapter - Key 2
27	140-0705	1	Plate, Heater Adapter - Key 2
28	508-0103	2	Sleeve, Mica - Heater Adapter
	••••	.	Mounting - Key 2
29	508-0102	2	Washer, Mica - Heater Adapter
	300 0102	•	- Key 2
30	336-1051	1	Lead, Jumper - Air Heater -
30	330 1031	•	Key 2
31	SCREW, H	JEV CAD	Ney 2
٠, د	800-0011	_	Basanstar Mauraina
		2 3	Resonator Mounting
	800-0026	-	Fuel Filter Adapter Mounting
32	WASHER,		man and he are
	850-0040	2	Resonator Mounting
	850-0045	3	Fuel Filter Adapter Mounting
33	502-0003	1	Connector, Primary Fuel Filter
			Inlet - Begin Spec S
34	502-0099	1	Elbow, Reducer - Secondary
			Fuel Filter Outlet - Begin
'			Spec S
35	122-0325	t	Filter, Fuel - Primary -
			Begin Spec S
36	122-0326	1	Filter, Fuel - Secondary -
			Begin Spec S
37	149-1185	F	Adapter, Fuel Filters -
		•	Begin Spec S
38	526-0068	1	Washer, Primary Fuel Filter
			Mounting - Begin Spec S
39	801-0074	ı	Screw, Hex Cap - Primary Fue!
			Filter Mounting - Begin Spec S
40	526-0066	1	Washer, Secondary Fuel Filter
			Mounting - Begin Spec S
41	801-0053	1	Screw, Hex Cap - Secondary
		-	Fuel Filter Mounting -
			Begin Spec S
42	870-0137	2	Nut, Air Cleaner Adapter
	_,,	~	Mounting (5/16-24)
.43	502-0080	2	Plug, Drain - Fuel Filter -
. , , ,	202 0000	•	Begin Spec S
			Dogin Spec 3



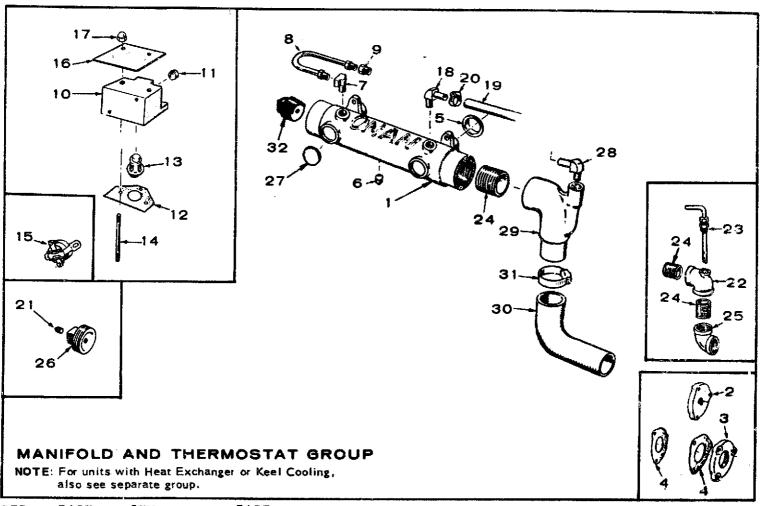
GOVERNOR GROUP



REF.	PART	QTY.	PART
NO.	NO.	USED	DESCRIPTION
	SPRING, GO	VERNOR	
1	150-0821	, ,	Spec A through Q
2	150-1084	į.	Begin Spec R
	STUD, ADJI	USTING	
3	150-0822	1	Spec A through Q
4	150-1082	J	Begin Spec R
5	NUT, GOVE	RNOR AD	JUSTING
	104-009 !	j	Spec A through Q
	862-0003	l	Begin Spec R
6	BRACKET,	GOVERNO	R SPRING
	150-0810	1 . :	Spec A through Q
	150-1103	1	Begin Spec R
7	150-0823	i j	Cover, Governor Spring
8	LINKAGE A	SSEMBLY	GOVERNOR
	150-0831	l	Spec A through Q
	150-1132	l l	Begin Spec R
9	JOINT, BAL	.L	
	150-0974	2	Spec A through Q
	150-0939	2	Begin Spec R
10	870-0131	2	Nut, Keps
11	870-0133	ŧ	Palnut, Governor Adjusting Lock
12	87 I-00 IO	1	Nut Hex (10-32)



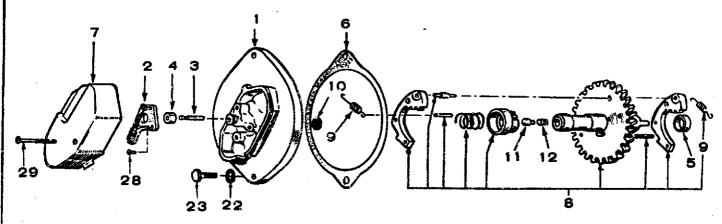




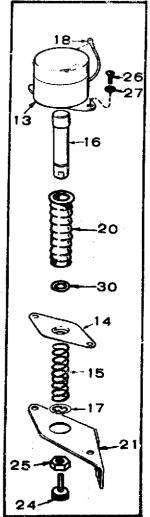
REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF.	PART NO.	QTY. USED	PART DESCRIPTION
ı	154-0708	ţ	Manifold, Exhaust - Water Cooled (Also order Plug	19	503-0159	1	Hose, Rubber (1/2 x 34") - Water Outlet and Inlet
			Spec A through G Units)	20	503-0446	2	Clamp, Water Hose
2	154-0709	1	Cap, End - Exhaust Manifold - Plain - Spec A through G	21	502-0080	I	Plug (1/8," - Square Head Brass - Manifold End Cap - (Used on
3	154-0710	1	Cap, End - Exhaust Manifold				some early models)
			Threaded Outlet - Spec A through G	22	505-0485	ı	Tee, Reducing - Exhaust (With Provision for Water Line) -
4	154-0711	2	Gasket, Exhaust Manifold Cap -	ł			Early Models
			Spec A through G	23	154-0894	ŀ	Tube Assembly, Hose Adapter -
5	154-1057	2	Gasket, Exhaust Manifold to Head				(Includes Fitting) - Early Models
6	505-0110	;	Plug, 3/8"	24	505-0625	1	Nipple, Close (1-1/4") - Two
7	502-0074	1	Elbow, Inverted Male	İ			used on early models.
В	130-0510	J	Line, Water	25	505-0493		Elbow (1-1/4"x 90°) - Early
9	502-0103	1	Connector, Inverted Male -	, 23	303-0473	•	Models
			Thermostat Cover Outlet	26	505-0490		Plug, Exhaust Manifold End
10	COVER, TH	ERMOSTA	AT	20	303-0-170	•	(I-I/4 x I/B'') - (Used on
	309-0144	ı	Units WITHOUT Keel Cooling	1			some early models)
	309-0161		Units WITH Keel Cooling	27	517-0041	3	Plug, Expansion (1-1/8"-
13	505-0274	1	Plug (1/8") - Thermostat Cover	l "'	317 0041	-	Brass)
12	309-0145	I	Gasket, Thermostat Cover	28	502-0237	t t	Elbow, Brass - Water Hose
13	309-0130	1	Thermostat	1 ~	301 0237	•	Adapter - Late Models
14	520-0143	2	Stud, Thermostat Cover	29	155-1058		Tee, Reducing - Exhaust (With
15	309-0156	t	Switch, Hi-Temp. Cut-Off	•	,55 ,456	•	Provision for Water Line) -
16	309-0154	1	Cover, Thermostat Switch -				Later Models
			Units with Switch Mounted on Cover	30	503-0575	1	Elbow, Exhaust Hose - Later Models
17	869-0002	2	Nut, Acorn (5/16-24) - Thermostat Cover Stud	31	503-0465	2	Clamp, Exhaust Hose - Later Models
18	502-0237		Elbow, Brass - Exhaust Manifold Water Outlet	32	505-0359	1	Plug (1-1/4") - Exhaust Manifold End - Begin Spec H



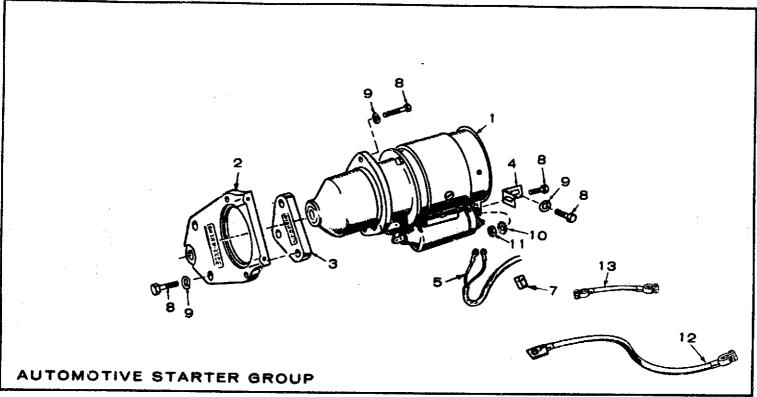
START-DISCONNECT PLATE AND STOP SOLENOID GROUP



REF.	PART NO.	QTY. USED	PART DESCRIPTION
ı	191-0496	1	Plate
2	309-0134	ļ	Switch Assembly
3	309-0152	j	Plunger, Switch
4	160-1143	ì	Diaphragm, Switch Plunger
5	160-0720	1	Spacer, Switch Plate
6	160-0721	1	Gasket, Plate
7	191-0392	1	Cover, Switch Plate
8	CONTROL	. ASSEMBLY	, START-DIS. SWITCH (ALSO
	DRIVE WA	TER PUMP)	- Includes Weight Springs
	191-0390	1	Spec A through K
	191-0554	1 :	Begin Spec L
9	160-0711	2	Spring, Weight (Included in
		-	Switch Control Assembly)
10	160-0806		Disc, Thrust Plunger
11	160-0774	j	Plunger, Thrust
12	160-0773	1	Spring, Thrust Plunger
13		, STOPPING	
	307-0628	i	Key I
	307-0680	1	Key 2, 32 Volt
	307-0668	J	Key 2, 24 Volt
14	306-0162	}	Retainer, Solenoid Plunger
15	306-0161	ı	Spring, Solenoid Plunger
16	306-0159	1	Plunger, Solenoid
17	518-0203	1	Ring, Snap - Spring Retaining
18	336-0706	ı	Lead, Ground - Solenoid
19	338-0258	1 .	Harness, Wiring - Switch Plate to Control
20	306-0193	1	Cover, Solenoid Plunger
21	306-0158	1	Bracket, Solenoid Mounting
22	850-0050	2	Washer, Lock (3/8") - Plate Mounting
23	800-0052	2	Screw, Hex Cap - Plate Mounting (3/8-16 x 1-1/2")
24	306-0242	l	Screw (1/4-20 x 1") - Plunger Adjustment
25	862-0001	1	Nut, Hex (1/4-20)
26	812-0150	2	Screw (1/4-20 x 5/8") -
			Solenoid Mounting
27	B50-0040	2	Washer, Lock (1/4)
28	815-0201	2	Screw (8-32 x 3/8") - Switch
			Assembly to Plate
29	813-107	Į.	Screw (10-32 x 1-1/4") -
			Cover Mounting
30	518-0218	2	Ring, Retainer - Solenoid Cover



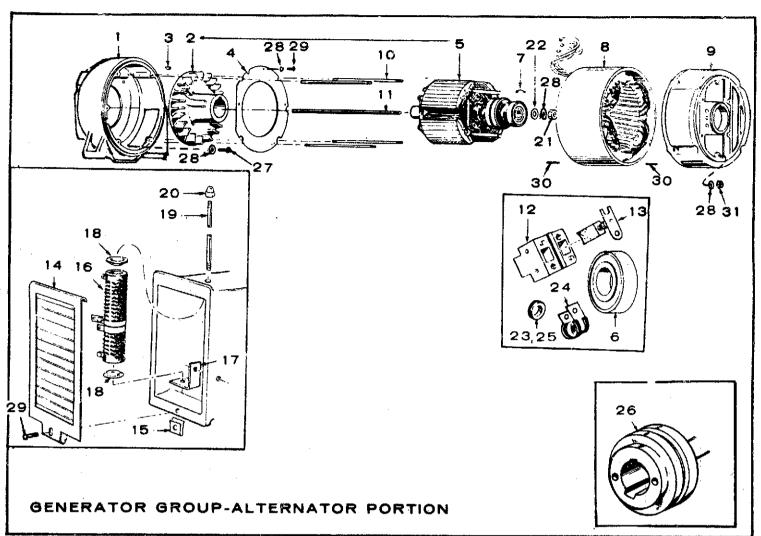




REF NO.		QTY. USED	PART DESCRIPTION
ł	*MOTOR ST	ARTER	
	191-0324	1	Key I, (I2 Volt)
	191-0443	i	Key 2 (24-32 Volt)
2 -	191-0512	I	Flange, Starter Mounting
3	191-0311	1	Spacer, Starter Flange
4	191-0365	1 .	Bracket, Starter
	338-0279	. 1	Harness, Starter to Control
7	416-0096	2	Clamp, Harness
8	SCREW, HE	X CAP	
	800-0051	2	Starter Motor to Flange
	800-0054	3	Starter Motor Flange Mounting
	800-0046	i	Support Bracket to Starter Motor
	800-0052	2	Support Mounting
9	WASHER, L	OCK	·
	850-0050	2	Starter Motor to Flange
	850-0050	. 3	Starter Motor Flange Mounting
	850-0050	2	Support Mounting
10	856-0010	Į	Washer, Shakeproof - Bracket to Starter Motor
13	864-0003	1	Nut, Hex - Support Bracket to
12	CABLE BA	TT-04 /0	Starter Motor
12			ELECT BY LENGTH) 20-1/2"Long
	416-0021	2	
15	416-0077	2	28-1/4" Long
13	416-0004	1	Cable, Jumper

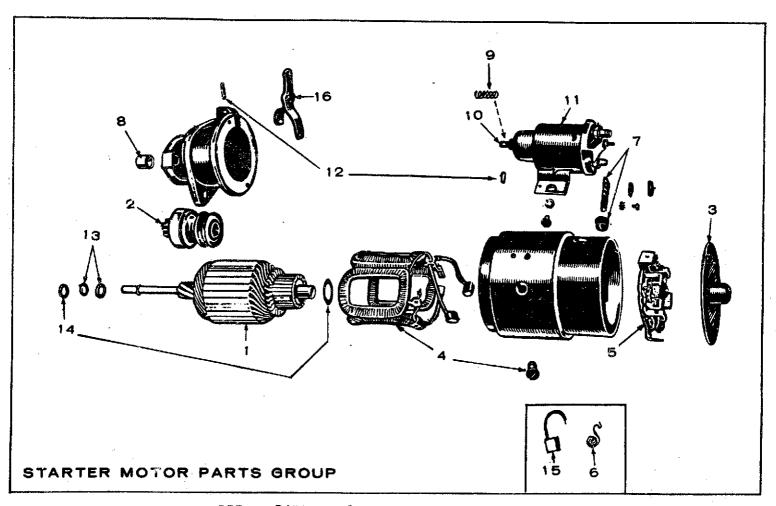
^{* -} See separate group for components.





REF.		QTY. USED	PART DESCRIPTION	REF NO.		QTY. USED	PART DESCRIPTION
			TOR TO ENGINE				
ţ	231-0099	, GENERA	Spec A through G	16		IAPPED	ADJ. (Also Listed in Control
	23 1-01 12	i	Begin Spec H	1	Group) 304-0500	1	Key I
2	205-0064	i	Blower, Generator	1	304-0534	-	Key 2
3	5 15-0006	· i	Key, Blower to Crankshaft	17	232-1565	i	Bracket, Resistor Mounting
4	234-0162	<u> </u>	Baffle, Generator Air	18	304-0006	, 2	Washer, Resistor Centering
5		OUND (Incl	ludes Bearing & Blower)	19	520-0620	ı	Stud, Resistor Mounting
-	201-1086	1	Spec A and B	20	866-0001	í	Nut, Acorn - Resistor Mounting
	201-1123	i	Begin Spec C	21	NUT, ROTO	10 TUD (11	
6	510-0047	i	Bearing, Ball - Rotor	7,	870-0203	JK 1 HKOU	50 Hertz
7	232-0596	i i	Clip, Bearing Stop	ļ	070-0203	•	60 Hertz
8	. *	i	Stator Assembly, Wound	1	232-1567	ı	Spec A and B (7/16-14)
9	BELL END	- ALTER	NATOR TO EXCITER		870-0203	i	Begin Spec C (7/16-20)
•			Key I	22	232-0200	i	Washer, Rotor Through Stud
	211-0146	1	50 Hertz	23	508-0095	i	Grommet, Rubber - Air Baffle
		•	60 Hertz	24	332-0050	ì	Clip, Tinnerman
	211-0138	1	Spec A through F	25	508-0112	i	Grummet, Rubber - Lead Out
	211-0146	1	Begin Spec G	26	204-006 i	i	Collector Ring
	211-0146	1	Key 2	27		X CAP - A	DAPTER MOUNTING
10	STUD, GEN	ERATOR T			800-0050	2	3/8-16 x 1"
			Key I		800-0051	2	3/8-16 x 1-1/4"
	520-0637	4	50 Hertz	28	WASHER, L	ock	
			60 Hertz		850-0050	4	Adapter Mounting
	520-0605	4	Spec A through F		850-0055	ı	Rotor Through Stud
	520-0637	4	Begin Spec F	i	850-0045	4	Generator Through Stud
	520-0637	4	Key 2		850-0030	5	Baffle Mounting
11	520-0611	1	Stud, Rotor Through	29	SCREW, ROL	UND HEAD	_
12	212-1064	2	Block, Guide - Collector Ring		809-0046	1	Air Outlet Cover Mounting
13	214-0059	4	Brush, Collector Ring	į.	813-0098	5	Baffle Mounting
14	234-0199	1	Cover, Air Outlet	30	516-0083	2	Pin, Roll (3/16" x 5/8") -
15	870-0177	J	Clip, Fastening				Alignment
			<u>-</u>	31	862-0015	4	Nut, Hex (5/16-18) - Generator Through Stud
				* - (Order by desc	ription givi	ing Model, Spec and Serial Number





REF.	PART	QTY.	PART					
NO.	NO.	USED	DESCRIPTION					
	MOTOR ASSEMBLY, STARTING							
	191-0324	1	12 Volt					
	191-0443	i	24-32 Volt					
J	ARMATURE							
	191-0712	t	12 Volt					
	191-0713	1	24 - 32 Volt					
2	191-0432	I	Clutch					
3	191-1023	1	Head Assembly, Commutator					
			End					
4	COIL PACKA	SE, FIEI						
	191-1024	1	12 Volt					
	191-1043	ı	24-32 Volt					
5	PLATE ASSEN	_						
	191-1025	1	12 Volt					
	191-1042	ļ	24 - 32 Volt					
6	191-1020	ı İ	Spring Set, Brush (Set of 4)					
7	191-1026	!	Connector Package					
8.	191-0497	ı	Bearing (Bronze), Drive End					
9	191-1027	1	Spring, Plunger					
ΙÓ		i	Core Assembly, Moving					
ii	SWITCH, SOLE	חוסא	Core / Gaembry, Floring					
• •	191-0433		12 Volt					
	191-0715	i	24-32 Volt					
12	191-1029	i	Yoke Parts Package					
13	191-1030	i	Stop and Lock Ring Package,					
14	191-1031	ŀ	Pinion Thrust Washer Package,					
			Armature (Use as Required)					
15	BRUSH SET, S	ERVICE						
	191-0434	1	12 Volt					
	191-0714	1	24 - 32 Volt					
16	191-1032	1	Yoke					



HEAT EXCHANGER GROUP-OPTIONAL EQUIPMENT 33 36 36 21



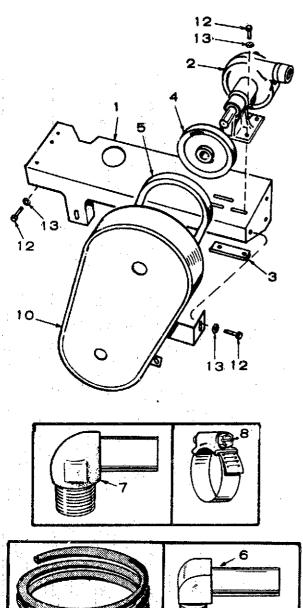
REF.	PART NO.	QTY. USED	PART DESCRIPTION
i	130-0514	1	Exchanger, Heat (Includes Zince Pencil Assembly)
2	130-0568	1	Line, Water - Expansion Tank to Exhaust Manifold
3	502-0103	ì	Connector, Inverted Male - Expansion Tank Outlet
4	130-0524	1	Tank, Expansion
5	502-0080	1	Plug (1/8") - Expansion Tank Fill Vent
6	130-0589	1	Cap, Pressure - NOTE: Prior to Serial #704528, also order #130-0590 Neck & Adapter.
7	130-0590	1	Neck and Adapter, Expansion
			Tank - NOTE: Prior to Serial #704528, also order #130-0589
		* * * * * * * * * * * * * * * * * * * *	Cap.
. 8	130-0519	ı	Gasket, Neck and Adapter
9	502-0155	. 1	Plug (3/8") - Expansion Tank
10	309-0145	1	Gasket, Thermostat Chamber
		•	(Also listed in Manifold and
11	309-0156	1	Thermostat Group) Switch, Hi-Temp. Cut-Off
12	502-0237	Ś	Elbow, Brass - Rubber Hose
12	302-0237	3	Connections
13	503-0171	6	Clamp, Hose
14	502-0238	i	Nipple, Brass - Manifold Outlet
	-		Hose Connection (Some Early
	÷		Models used on Centrifugal
s r -	122 0110	1 4	Pump)
15 16	132-0110 131-0130	1	Pump, Less Pulley Bar, Pump Hold-down
17		NTRIFICAL	WATER PUMP
	511-0062	1	Spec A through F
	511-0067	i	Begin Spec G
18		CENTRIFUC	AL WATER PUMP
;	512-0036	1	Spec A through F
	512-0042	i	Begin Spec G
19	GUARD, B	ELT	
	130-0518	Į.	Spec A through F
	130-0591		Begin Spec G
20	EXCHANG		ATER PUMP TO HEAT
4	130-0527		Spec A through K
	130-0627	.	Begin Spec L
21	BRACKET	, HEAT EXC	HANGER AND GOVERNOR
-	SPRING B		
	130-0515		Spec A through F
	130-0587) 	Spec G through P
	130-0692	1	Begin Spec R Hose, Rubber (1/2"1.D. x 34"
22	503-0159		- Total Length Required
			for all Hoses)

23 502-0074 Elbow, Inverted Male - Manif	
24 130-0626	
25 502-0085 *Nipple, Close (3/8") -	,up,
26 502-0257 *Tee, Pipe (3/8") Manifold Outlet 27 502-0049 *Bushing, Pipe (3/8 x 1/8) - Manifold Outlet 28 504-006 *Valve, Air Bleed - Manifold Outlet 29 PULLEY, FLYWHEEL 104-0449 Spec A through F 104-0550 Begin Spec G 30 130-0726 2 Gasket, End Bonnet - Heat Exchanger 31 130-0727 2 Bonnet, Heat Exchanger 32 130-0892 Stiffener, Filler Neck 33 SCREW, HEX CAP 800-0041 2 Expansion Tank Mounting 800-0054 2 Pulley Mounting	
Manifold Outlet	
Outlet 29 PULLEY, FLYWHEEL 104-0449 Spec A through F 104-0550 Begin Spec G 30 130-0726 2 Gasket, End Bonnet - Heat Exchanger 31 130-0727 2 Bonnet, Heat Exchanger 32 130-0892 Stiffener, Filler Neck 33 SCREW, HEX CAP 800-0041 2 Expansion Tank Mounting 800-0054 2 Pulley Mounting	
104-0449	
104-0550	•
30 130-0726 2 Gasket, End Bonnet - Heat Exchanger 31 130-0727 2 Bonnet, Heat Exchanger 32 130-0892 1 Stiffener, Filler Neck 33 SCREW, HEX CAP 800-0041 2 Expansion Tank Mounting 800-0054 2 Pulley Mounting	
Exchanger 3	
32 130-0892 Stiffener, Filler Neck 33 SCREW, HEX CAP 800-004 2 Expansion Tank Mounting 800-0054 2 Pulley Mounting	
32 130-0892 Stiffener, Filler Neck 33 SCREW, HEX CAP 800-0041 2 Expansion Tank Mounting 800-0054 2 Pulley Mounting	
33 SCREW, HEX CAP 800-0041 2 Expansion Tank Mounting 800-0054 2 Pulley Mounting	
800-0054 2 Pulley Mounting	
800-0026 2 Bracket Mounting to Starter	
Flange	
800-0004 2 Bracket Mounting to Backplat	e
800-0005 2 Pump Mounting	
800-0003 4 Belt Guard Mounting	
800-0004 4 Heat Exchanger Mounting	
34 821-0005 6 Screw, Filter Neck Mounting	
35 813-0096 2 Screw, High Temperature Swin	tch
36 WASHER, LOCK	
850-0050 2 Pulley Mounting 850-0045 2 Bracket Mounting to Starter Flange	•
850-0040 2 Bracket Mounting to Backplat	•
850-0040 2 Pump Mounting	_
850-0040 4 Belt Guard Mounting	
850-0040 4 Heat Exchanger Mounting	
850-0030 6 Filler Neck Mounting	
850-0030 2 High Temp. Switch Mounting	
37 503-0347 I Hose, Overflow	
38 526-1015 4 Washer, Flat (1/4")	
REPAIR KIT, WATER PUMP - (INCLUDES SHAFT &	
BEARINGS, IMPELLER, SEAL, GASKET & SCREWS	
132-0080 I For Oberdorfer Model IGP #50-P9 and IGP #10-F	P1
(Onan #132-0070 and 132-0 132-0111 For Oberdorfer Model IGP #50-P15 (Onan #132-0	



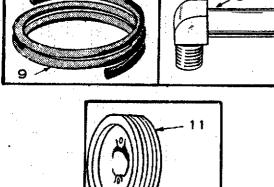
^{* -} Not used on some early models. + - For component parts, refer to separate group.

SPECIAL PARTS FOR KEEL COOLING MODELS (OPTIONAL EQUIPMENT)

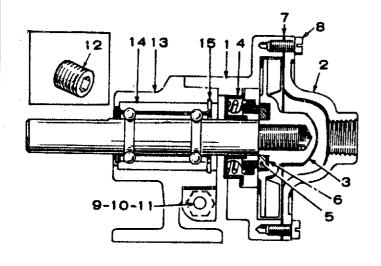


REF.	PART NO.	QTY. USED	PART DESCRIPTION
ł	BRACKE	T, WATER P	UMP AND GOVERNOR SPRING
	130-0587	1.	Spec A through Q
	130-0692	T	Begin Spec R
2	132-0074	l	*Pump, Water - Less Pulley
3	131-0144		Bar, Pump Hold-down
4	512-0042	1	Pulley, Water Pump
5	511-0068	ŀ	Belt, Water Pump Drive
6	502-0250	1	Elbow, Outlet - Brass - Pump
7	502-0278	1	Elbow, Pump Inlet - Brass
8	503-0183	2	Clamp, Hose
9	503-0445	I	Hose, Rubber - Pump to Block
10	130-0591	į.	Guard, Belt
11	PULLEY,	FLYWHEEL	
	104-0449	1	Spec A through F
	104-0550	ì	Begin Spec G
12	SCREW, H	EX CAP	
	800-0003	4	Belt Guard Mounting
	800-0026	2	Bracket to Starter Flange
	800-0004	2	Bracket to Backplate
	800-0005	2	Water Pump Mounting
13	WASHER,	LOCK	
	850-0040	4	Belt Guard Mounting
	850-0045	· 2	Bracket to Starter Flange
	850-0040	2	Bracket to Backplate
	850-0040	2	Water Pump Mounting

* - For component parts, refer to separate group.



WATER PUMP PARTS GROUP(132B110)



NOTE: This pump used on plants with heat exchanger only.

REF.	PART NO.	QTY. USED	PART DESCRIPTION
	132-0110	1	Pump, Water - Complete
	132-0111	1	Repair Kit (Includes Parts Marked *)
l	132-0136	1	Body, Pump
2	132-0137	1	Cover, Pump
3	132-0114	1	*Impeller
4 '	132-0101	1	*Seal
5	132-0091	1	*Face, Wear
6	132-0092	1	*Seat, Seal
7	132-0112	1	*Gasket, Cover
8	132-0113	6	*Screw, Cover
9	132-0138	1	Screw, Cap
10	132-0139	J	Lockwasher
11	132-0140	1	Nut, Hex
12	132-0141	!	Plug, Drain
13	132-0142	1	Pedestal
14	132-0089	Į.	*Shaft and Bearing Assembly
15	132-0132	1	Ring, Snap

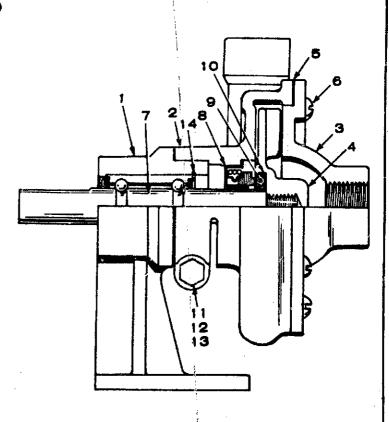
^{* -} Parts included in the 132-0111 Repair Kit.

WATER PUMP PARTS GROUP(132C74)

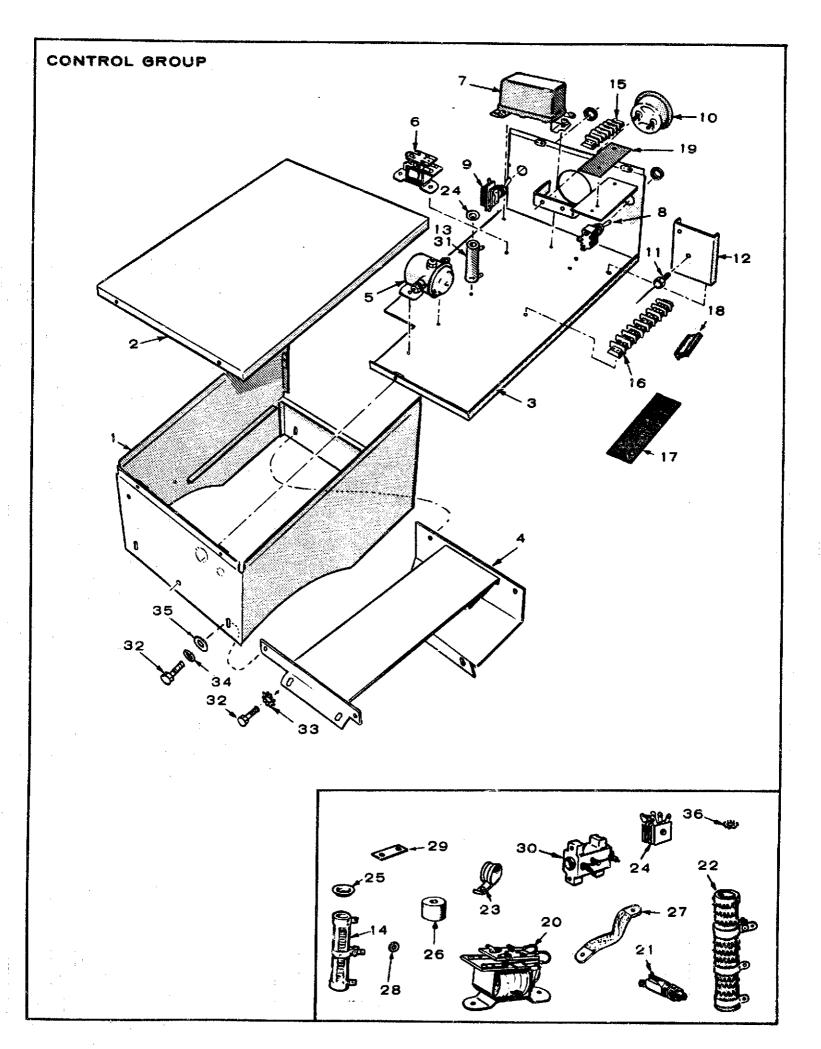
NOTE: This pump used on plants with keel cooling only.

REF.	PART NO.	QTY. USED	PART DESCRIPTION
	132-0074	I	Pump, Water - Complete
	132-0093	1	Repair Kit (Includes Parts Marked *)
1	132-0143	i	Pedestal
2	132-0144	1	Body, Pump
3	132-0145	1	Cover, Pump
4	132-0087	1	impeller
	132-0088	ı	*Gasket, Cover
6	810-0099	8	*Screw (#10-24 x 7/16 ''), Brass
7	132-0089	1	*Shaft and Bearing Assembly
8	132-0101	i	*Seal, Mechanical
9	132-0091	1	*Ring, Seal Wear
10	132-0092	1	*Cap, Wear Ring
11	132-0138	1	Screw, Cap
12	132-0140	ŀ	Nut
13	132-0139	1	Lockwasher
14	132-0132	. F	Ring, Snap

* - Included in the 132-0093 Repair Kit.





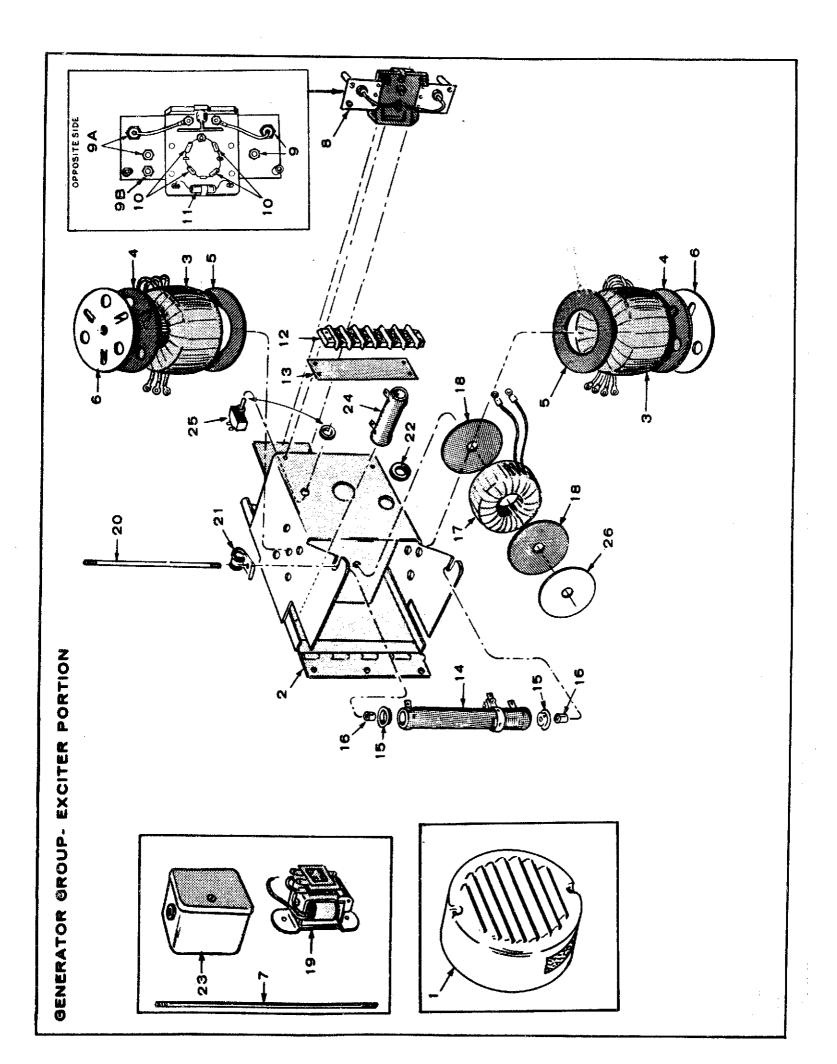




REF.	PART NO.	QTY. USED	PART DESCRIPTION
J	301-1962	1	Box, Control
2	301-1963	i	Cover, Control Box
3	301-1961	Í	Panel, Control Box
4	301-1968	i	Bracket, Control Box
5	SOLENOID.	MANIFOL	D HEATER AND START
	307-1046	2	Key I
	307-006 !	2	Key 2
6	307-0623	1	Relay, Start Disconnect
7	307-0597	1	Relay, Start - Ignition
8	308-0154	1	Switch, Start-Stop
9	308-0037	l l	Switch, Manifold Heater
10	302-0446	1 -	Ammeter, Charge (5-0-5)
H	RECTIFIER	- 10 AMP,	100 VOLT PEAK
	305-0235	1	Key i
	305-0238	ŀ	Key 2
12	305-0254	1	Bracket, Rectifier Mounting
13	304-0032	ŀ	Resistor, Fixed - Key I
14	RESISTOR, A	ADJUSTAI	
	304-0005	1	Key 2 (150-Ohm, 25 Watt) - 9/16 x 2"
	304-0247	1	Key 2 (100-Qhm, 10 Watt) - 5/16 x 1-3/4"
15	332-0604	F	Block, Terminal (5 Place) - Key 1, 2
16	332-0706	1	Block, Terminal (8 Place) - Load
17	332-0739	ı	Strip, Marker (4,5,6,7,8,9)
18	332-0750	1	Marker Strip & Wire Holder Kit, Battery Polarity - Key ! - Spec A through N
19	332-0616	ı	Strip, Marker (B+, 1, 2, 3, H)
20	307-0614	Ì	Relay, Latching - Units with Low Oil Pressure Cut-Off Switch - Spec A through E
21	308-0091	!	Switch, Reset - Units with Low Oil Pressure Cut-Off Switch - Spec A through E

REF.		QTY.	PART
NO.	<u>NO.</u>	USED	DESCRIPTION
22	RESISTOR,	TAPPED.	ADJ. (MOUNTS IN GENERATOR
	AIR OUTLE		•
	304-0500	ı	Key I
	304-0534	2	Key 2
23	332-0052	l	Clip, Tinnerman
24	305-0197	ŀ	Rectifier, Full Wave - Units with Low Oil Pressure Cut-Off Switch - Spec A through E
25	304-0006	2	Washer, Resistor Centering
26	402-0078	4	Mount, Rubber - Control Box
27	337-0036	i	Strap, Ground - Control Box
	337 0030	•	to Generator
28	508-0001	1	Grommet, Rubber - For I-1/16" Hole
29	332-0602	l	Jumper, Heater Solenoid to Start Solenoid
30	320-0104	1	Switch, Emergency Reset -
			Units with Low Oil Pressure
			Cut-Off Switch - Begin Spec F
31	DECICTOR	CIVED (I	OHM, 10 WATT) - UNITS WITH
31			CUT-OFF SWITCH
	304-02 17	1	Key ! - Begin Spec F
	304-0003	,	Key 2 - Begin Spec F
32	SCREW. HEX	Y CAP	Key 2 * Begin Spec I
32	815-0236	4	Control Box Bracket Mounting
	800-0024	4	Control Box Mounting
33	856-0008	4	Washer, Shakeproof - Control
•	000	•	Box Bracket Mounting
34	850-0045	4	Washer, Lock - Control Box Mounting
35	526-0115	4	Washer, Flat - Control Box
36		•	OF - GROUND STRAP MTG.
	856-0006	1	1/4" Size
	856-0008	1	5/16 Size







338	₽	FGVO						
Ş	USED	DESCRIPTION			PART NUMBER	SER		
			025XINIA	045XINIA	045XINIB	04SX IN3B	06SX5INIB	N: 5X590
	-	Exciter Complete (Less Cover)	209-0001	209-0002	209-0003	209-0005	209-0012	209-001
-	-	Cover, Exciter	234-0154	234-0154	234-0185	234-0185	234-0185	234-018
7	-	Panel Only, Exciter	234-0153	234-0153	234-0188	234-0188	234-0188	234-018
m	2	Reactor, Gate	315-0084	315-0099	315-0099	315-0099	315-0104	315-010
4	2	Gasket, Gate Reactor Mounting, Outer	232-1553	232-1553	232-1553	232-1553	232-1553	232-155
5	2	Gasket, Gate Reactor Mounting, Inner	232-1551	232-1551	232-1551	232-1551	232-1551	232-155
9	2	Retainer, Gate Reactor	232-1552	232-1552	232-1552	232-1552	232-1552	232-155
7	_	Stud, Gate Reactor Mounting	520-0211	520-0211				
8	-	Rectifier Assembly, Resistor and Complete	305-0242	305-0259	305-0259	305-0387	305-0264	305-038
6	2	Rectifier Only, Power Field, Negative	305-0238	305-0238	305-0238	+ 305-0238	305-0238	1305-023
٨6	2	Rectifier Only, Power Field, Positive	305-0239	305-0239	305-0239	305-0239	305-0239	305-023
9B	-	Rectifier, Field Flash				305-0239		305-023
<u> </u>	4	Rectifier, Voltage Control	305-0240	305-0240	305-0240	305-0240	305-0240	305-024
=		Resistor, Included in Rectifier Assembly (150-Ohm, 5 Watt)					304-0512	204.06
E	_	Resistor, Included in Rectifier Assembly					7-00-00	Color
!		(500-Ohm, 5 Watt)	304-0476	304-0476	304-0476	304-0476		
12	_[Block, Terminai	332-0699	332-0699	332-0745	332-0745	332-0745	332-0745
<u> </u>	-]	Strip, Block Marker	332-0700	332-0738	332-0746	332-0925	332-0746	332-092
4	-	Resistor, Fixed (200-Ohm, 50 Watt)	304-0489					
4	-	Resistor, Tapped, 500-Ohm (425 Fixed, 75 Adj.)		304-0511				
4	-	Resistor, Tapped, 500-Ohm (425 Fixed, 75 Adj.)			304-0527	304-0527	304-0527	304-052
5	49*	Washer, Resistor Centering (Two Only Used for						-
1	٠	(AINI\\2002)	304-0015	304-0015	304-0015	304-0015	304-0015	304-001
2 5	<u>, </u>	Spacer, Nesistor Frounting	232-1550	232-1550	232-1474	232-1474	232-1474	232-1474
	- '	Reactor, Voltage Control	315-0085	315-0100	315-0100	315-0100	315-0105	315-010
<u> </u>	7	Gasket, Voltage Control Reactor	232-1548	232-1548	232-1548	232-1548	232-1548	232-1548
6	-	Relay, Field Build-up	307-0584					
8	-	Stud (or Screw), Tapped Resistor Mounting	812-0116	812-0116	520-0641	520-0641	520-0641	520-064
21	-	Clip, Tinnerman	332-0050	332-0050	332-0051	332-0051	332-0051	332-0051
77	-	Grommet, Rubber, For 7/8" Hole	508-0008	508-0008	508-0008	508-0008	208-0008	208-000
23		Cover, Relay	307-0643					***************************************
24		Resistor, Fixed (250-Ohm, 25 Watt)		304-0510	304-0510	304-0510	304-0510	304-0510
25	-	Switch, Residual Reset			308-0175		308-0175	
2 6		Washer, Retainer, Voltage Control Reactor	526-0173	526-0173	526-0173	526-0173	526-0173	526-0173
	•						-	

NOTE: All 5.0MDJB Units used 065X51N1B Spec A through K and 06SX51N3B Begin Spec L (except 5.0MDJB-55DR used 06SX51N1B). 6.0MDJB Units used 02SX1N1A Spec A and B, 04SX1N1A Spec A through F, 04SX1N1B Spec G through K and 04SX1N3B Begin Spec L (except 6.0MDJB-5DR used 04SX1N1B).

† - Later Models use Quantity of three.

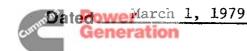
Check your unit nameplate for correct magnetitar numbar

SPECIAL PARTS LIST FOR MODEL	6.0MDJB-3CR	_ SPEC _	3945S	
FOR STANDARD PARTS	REFER TO CATALOG	968-0321	KEY NO	7

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

			•	
WIRING	DIAGRAM	NO	(ENG) 611-0934-01	

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
				· ·	
123-1283	1	Baffle, Breather Tube			
509-0132	2	Seal Assembly, Oil - Intake Valve - (Includes Retainer Rings)			
104-0594	1	Cover, Flywheel Guard			
220-1226	1	Stator Assembly, Wound			
211-0152	1	Bell, End			
150-0956	1	Switch Assembly, Overspeed			
150-0958	1	Bracket & Point Assembly, Overspeed			,
234-0197	1	Cover, End Bell			
332-0751	1	Block, Terminal (10 Place)			
332-1235	1	Strip, Marker - Terminal Block			
301-2376	1	Panel, Control Box			
320-0221	1	Relay, Low Oil Pressure			
322-0069	2	Holder, Pilot Lamp			
322-0004	2	Pressure Cut Off (1) Overspeed Cut Off			



SPECIAL PARTS LIST FOR MODEL	6.0MDJB-3CR	_ SPEC	101428
FOR STANDARD PARTS	REFER TO CATALOG	068-0321	KEY NO

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 611-0934-01

PART NO.	QTY	. DESCRIPTION	PART NO.	QTY.	DESCRIPTION
				T	······································
Keel Cool:	ing				
502-0304	1	Elbow, Adapter - Raw Water Pump Outlet (90°)			
502-0300	1	Elbow, Adapter - Captive Water Pump Outlet (90°)			
502-0085	1	Nipple, Close - Block Water Inlet			
502-0298	1	Elbow, Brass - Block Water Inlet (45 ⁰)			
502-0258	1	Nipple, Half - Block Water Inlet (3/8 X 2)			
503-0159	2	Hose, Water Pump (34")			
503-0446	3	Clamp, Hose			
123-1283	1	Baffle, Breather Tube			
509-0132	2	Seal Assembly, Oil - Intake			
		Valve (Includes Retainer Rings)			
104-0594	1	Cover, Flywheel Guard			•
220-1226	1	Stator Assembly, Wound			:
211-0152	1	Bell, End			
150-0956	1	Switch Assembly, Overspeed			
150-0958	1	Bracket & Point Assembly, Overspeed			
234-0197	1	Cover, End Bell			
332-0751	1	Block, Terminal (10 Place)			
332-1235	1	Strip, Marker - Terminal Block			
301-2376	1	Panel, Control Box			
320-0221	1	Relay, Low Oil Pressure			
322-0069	2	Holder, Pilot Lamp			
322-0004	2	Lamp, Pilot - (1) Low 0i1			
		Pressure Cut Off			
		(1) Overspeed Cut Off			
		į			

SPECIAL PARTS LIST FOR MODEL .	5.0JDJB-53CR	SPEC	10/132

KEY NO. ___2_ FOR STANDARD PARTS REFER TO CATALOG 968-0321

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO	(ENG)611-0722-01
-------------------	------------------

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
				T T	
eat Excha	nger				
123-1283	1	Baffle, Breather Tube			
509-0132	2	Seal Assembly, Oil - Intake Valve - (Includes Retainer Rings)			
04-0594	1	Cover, Flywheel Guard			
220-0907	1	Stator Assembly, Wound			
353-0007	1	Resistor, Fixed - Generator Exciter - (5.5 Ohm, 50 Watt)			